Master

MULTI-CD/TUNER CONTROL
CD-PLAYER

# DEX-M88

# OWNER'S MANUAL
# MODE D'EMPLOI

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prenez le soin de lire ce manuel.

Nuestras gracias por la adquisición de este producto PIONEER. Antes de operar el aparato, lea detenidamente este manual.

شكرا لك على شراء هذا المنتج من PIONEER. قبل محاولة التشغيل، تأكد من قراءة هذا الدليل.

PIONEER®

*The Art of Entertainment*

CAUTION: USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

- There is a screw on the top of the unit to protect the unit during transportation. Remove the screw before installing the unit and fix the seal supplied over the screw hole. Keep the screw because it must be used if you transport the unit later. (Fig. 1)

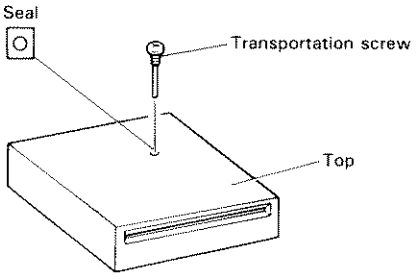



Fig. 1

- Multi CD Control function for full control over optional magazine type multi-paly CD player.
- Radio broadcasts may be received by installing the separately available Hide-away tuner. Note that all tuning operations are handled by this unit.
- Plays 8-cm and 12-cm CDs. No adapter needed for 8-cm discs.
- Random play function to randomly select tracks.
- Auto-loading function to automatically load and play a disc when it is inserted into the CD player slot.
- Various selection functions (track number search, highlight scan, fast forward and reverse).
- Removable front panel protects against theft.

# Using the Removable Front Panel

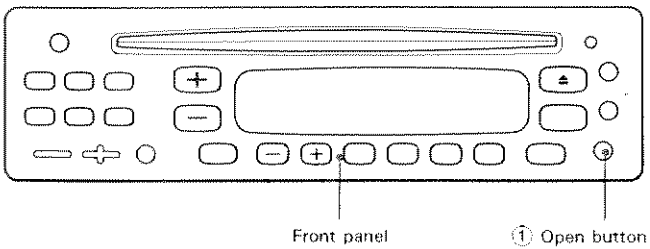


The front panel of this unit can be removed to prevent theft. Also, to prevent forgetting to remove the front panel, 5 seconds after the ignition is turned off, if the front panel is still attached, a buzzer will sound for a few seconds.

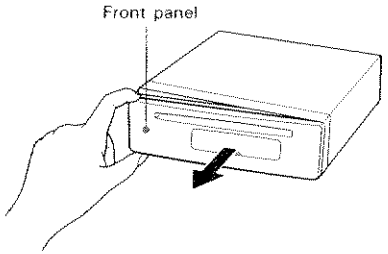
- When using the unit with the front panel fastened in place, mount it securely with the accompanying screw and bracket (see the section on page 26 entitled "Front Panel Bracket")

## Detaching the Front Panel

1. Press button ①, and the left-hand side of the panel will eject.
- The button ① may only be used when the ignition key is turned on, or within 30 seconds after turning the ignition off. If more than 30 seconds have passed since the ignition was turned off, button ① will not open the front panel.
- Removal of the front panel is disabled when the ignition key is turned to OFF during disc loading or ejection, even if button ① is pressed afterwards. To remove the front panel, turn the ignition key to ON, then press button ①.
- The front panel cannot be removed during disc loading or ejection.

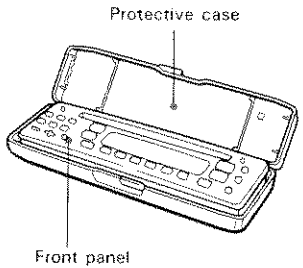



2. To remove the front panel, pull its left-hand side toward you.




- Take care not to put pressure on the display or drop the front panel.

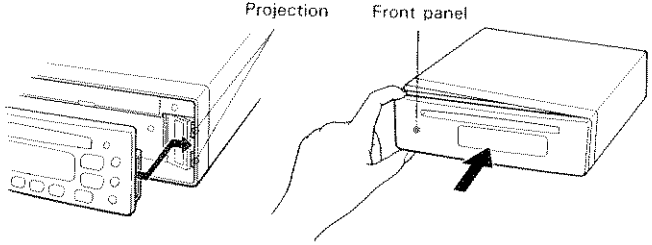
3. Enclose for safekeeping the front panel that is removed in the supplied protective case.



## Replacing the Front Panel

1. With a hollow in the right-hand end of the front panel aligned to projections on the right-hand front wall of the equipment, press the panel's left-hand side against the equipment to put it into place.

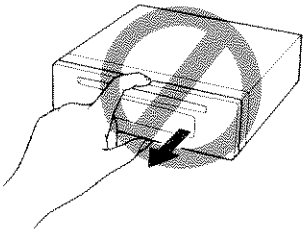
- When replacing the front panel, do not put pressure on the display or control buttons.



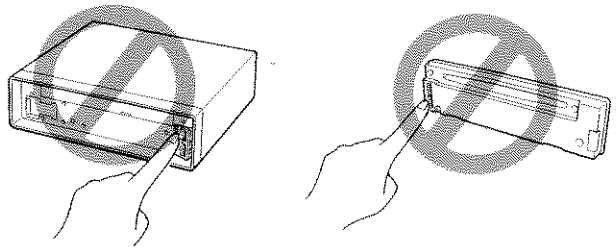

- Note that if the front panel is not attached correctly, pushing button ① may not release the panel, and the other control buttons may not function.

## Precautions

- Do not force the front panel to remove it.



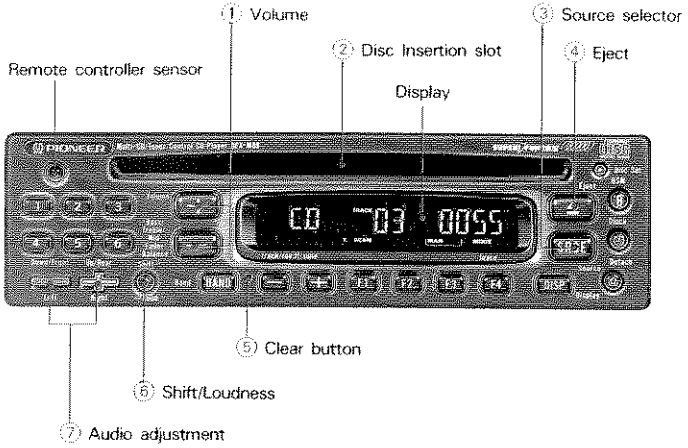
- Do not touch the contacts on the front panel or on the unit body, since this may result in poor electrical contact. If dirt or other foreign substances get on the contacts, wipe them with a clean, dry cloth.

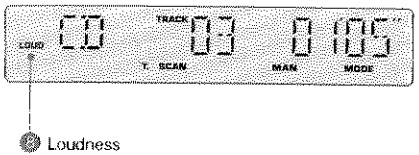


## Precautions When Handling the Front Panel

- Do not leave the front panel in any area exposed to high temperatures or direct sunlight.
- Do not drop the front panel or otherwise subject it to strong impact.
- Do not allow such volatile agents as benzine, thinner, or insecticides to come into contact with the surface of the front panel.
- Never try to disassemble the front panel.

# Switching Power On/Adjusting Volume and Tone




## CAUTION:

When the main unit is used in conjunction with a cassette deck, (and the SOURCE/PRE OUT switch at the back of the unit is switched to the SOURCE position), be aware of the following items. Refer to page 23 for details on setting this switch.

- The cassette deck takes precedence, so to operate the disc player, turn off the cassette deck's power.
- Audio adjustments such as volume, fader, and bass on the main unit do not function. Perform these adjustments at the cassette deck.
- Although the main unit's CD player will function, the separately available multi play CD player and the hide away tuner can not be operated even if they are connected.
- The remote control associated with the main unit can not be used.

## Using the Clear Button

Once all wiring is complete, press Button ⑤ with a thin, pointed object. Though not a normal occurrence, the microprocessor which controls the operation of this unit can be affected by electrostatic noise. This generally is indicated by such symptoms as no power being supplied when you switch the unit on, failure of buttons and controls, or an abnormal display. Should this happen, press Button ⑤ with a thin, pointed object to reset the microprocessor. Note that doing so also resets all audio controls, so you will have to make any desired settings again.

## Switching Power On

When a disc is inserted half-way into the disc insertion slot ② with its label side upward, the disc is automatically loaded and played. To remove the disc, push button ④.

## Changing the source

To change the source, push button ③ with the disc inserted in the slot. At each press of the button, the source changes as follows: CD Player-OFF When the separately available multi play CD player and Hide-away tuner are installed, pressing the button cycles through the devices in the following order: CD player, multi play CD player, tuner, power OFF.

- When there is no disc magazine inserted in the multi play CD player, it will not be selected.

### Adjusting Volume

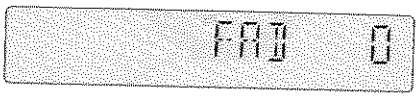
Pressing the (+) side of button ① increases the volume, while the (−) side decreases it.

### Adjusting the Other Audio Controls

Pushing button ⑦ adjusts the fader control. Also, pressing button ⑥ cycles the display through fader, bass, mid, treble, and balance, and button ⑦ will adjust the displayed control.

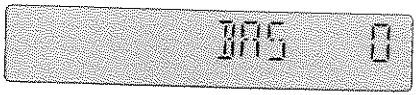
### Adjusting the Fader

This function controls the balance between the front and rear speakers of a 4-speaker system. Pressing the (−) side of button ⑦ shifts the balance to the front speakers, while the (+) side shifts it to the rear speakers. For 2-speaker systems, set FAD 0.



### Adjusting Bass

Pressing the (+) side of button ⑦ increases bass, while the (−) side decreases bass.



### Adjusting Middle

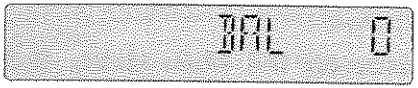
Pressing the (+) side of button ⑦ increases middle, while the (−) side decreases middle.

### Adjusting Treble

Pressing the (+) side of button ⑦ increases treble, while the (−) side decreases treble.

### Adjusting Balance

Pressing the (–) side of button ⑦ shifts the balance to the left speaker, while the (+) side shifts it to the right speaker.

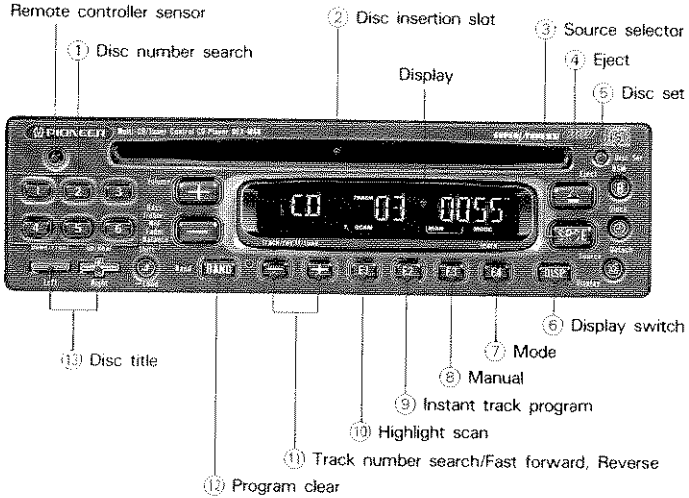


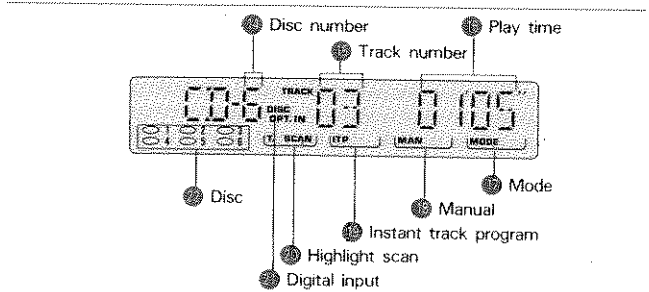

* When you're adjusting fader, bass, middle, treble, or balance settings, the indicator willl stop at the center setting. About 5 seconds after adjustment has been made, the display returns to its previous state.

## Using the Loudness Function

Press button ⑥ for about two seconds and the "**LOUD**" ❽ indication will appear on the display. This loudness function lets you enhance both high and low frequencies to give a more natural sound at low volumes. To cancel this function, press button ⑥ again for about two seconds.

# Playing Compact Discs




This unit, in addition to playing discs on its built-in CD palyer, also function as the controller for the separately available multi play CD player whe installed. The owner's manual for the multi paly CD player does not includ instructions on operating the CD controller. This manual also cover operation of the CD controller section along with operation of the mai unit's built-in CD player.

## Playing Discs on the Main Unit's Built-in CD Player

**NOTES:**

When the main unit is used in conjunction with a cassette deck, (and the SOURCE/PRE OUT switch at the back of the unit is switched to the SOURCE position), since the cassette deck takes priority over the CD player, turn off the cassette deck power switch to listen to discs.

**1** On inserting the CD, with the label side up, half way into the CD slot ②, it will automatically be set into position and start to play. The track number ⑯ and playback time ⑮ indicators will light.

**2** Adjust the volume and tone controls. (Refer to page 6.)

**3** To stop CD playback, press button ③ turning the power off.
To restart playback, press button ③. Playback will begin from the part of the track that was playing when playback was stopped.

- When the separately available multi play CD player or Hideaway tuner are installed, operation differs. Refer to the section on source switching on page 6.

**4** To remove or change discs, press button ④.
When the disc is ejected, pressing it will cause it to be set into position again, and playback to start.

Note:

- If a disc can only be inserted halfway, or if the disc does not play after being loaded, something may be wrong with the disc. Eject the disc by pressing button ④, and check it. If it is all right, insert it again.
- Insert the disc with its label (printed) side facing up. If the disc is inserted with the label side facing down, it will not play, and the recorded side may be damaged.
- The disc is set when disc set light ⑤ is lit. If another disc is inserted into the slot at this time, the discs may be damaged or the player may malfunction.
- Do not insert two discs into the slot at the same time. This may cause a malfunction.
- When a disc in which there are several seconds between tracks is used, the amount of elapsed disc-play time is shown, for example, as −01 and −00.

## Using the multi play CD Player (Requires purchasing the multi play CD player which is available separately)

The Magazine Type Multi-Play CD players with mark and the Magazines with the same mark are compatible for 5-inch (12 cm) discs.

### CAUTION:

When the main unit is used in conjunction with a cassette deck, (and the SOURCE/PRE OUT switch at the back of the unit is switched to the SOURCE position), although the main unit's built-in CD player may be used, the multi play CD player can not be operated.

[1] When button ③ is pressed, the multi play CD player's power is turned on, and the disc number ⓮, track number ⓯, and playback time ⓰ displays will light.
Pressing this button switches the system between multi play CD player and power OFF states.

- Operation will differ in such cases as there being a CD in the main unit's built-in CD player, or the separately available hide away tuner being installed. Refer to the section on source switching on page 6 for details.
- There is a digital output terminal on the multi play CD player. When the output from this terminal has been connected to the digital input-terminal on the main unit, "OPT. IN ㉑" will appear on the display.
- When the multi play CD player is first connected to the main unit, the system may not operate correctly. (For example, the multi play CD player may not be selected by pushing button ③.) In this case, press the clear buttons on both the main unit and the multi play CD player. Refer to the section concerning the clear button on page 5.

2 Select a disc using disc number search.
Use the buttons ① to select the desired disc. The number of the selected disc will be displayed in the display ⓮.

- The numbers in the disc ⓬ display indicate the existence of discs in the magazine. If a number is lighted, then there is a disc loaded in that position.
- If there is a tray without a disc in the magazine, that tray number will not be selected even if its button is pushed.

3 Adjust the volume and tone. (Refer to page 6.)

4 To stop disc playback, push button ③ turnign off the power. Pushing this button switches between the multi play CD player and the power off states.

- If there is a disc inserted in the main unit's CD player, or if the separately available hide away tuner is connected, operation will differ. Refer to the section on source selection on page 6.
  To resume paly, press button ③ again, and play will resume in the vicinity of the track that was interrupted.
- When the multi play CD player (CDX-M100) is installed, if playback is stopped and then restarted, it will resume play at the beginning of the track that was stopped.

Note:

- It takes about a minute for replay to start after the magazine is inserted into the multi play CD player, This is not a malfunction. The CD player confirms the discs in the magazine and reads TOC (Table of contents: number of music and time required to play all numbers in a disc) during this time. While TOC is being read, " READY " will be displayed.
- An "ERROR" (error) indicator is shown on the display and operation of the system becomes impossible when there are no discs in the magazine or when the discs are loaded into the magazine with their labels facing upwards. Whenever this message appears, remove the disc magazine and check the discs.
- If the magazine is removed during replay, "NO MAG" will be displaye
- After you press a Button in Bank ①, it may take some time befo play begins due to the time necessary to load and set the disc in t mechanism.
- When a disc in which there are several seconds between tracks is use the amount of elapsed disc-play time is shown, for example, as –( and –00.
- The indicator "HEAT" flashes on the display and playback automatically cut when the temperature around the multi-play CD paly becomes too high. This protects the laser mechanism from serio damage. In this case, wait till it cools down.
  (This functions only when your unit is used with a Multi-Play CD Play CDX-M100.)

# Convenient Functions for Disc Playback



* The following functions are shared between the built-in CD player and the multi play CD player.

## Track Number Search

The desired track on the disc currently being played can be selected by track (or song) number.

1. Make sure that the frame of the manual indicator ⑱ is not illuminated. If it is illuminated, press button ⑧ to turn it off.
2. Use the button ⑪ to select a track. Pressing the (+) side increases the track number ⑮, and pressing the (−) side decreases it. Holding the button down continuously increases or decreases the track number.

## Using Highlight Scan

Highlight Scan is designed to enable you to conveniently scan all pieces of music contained in the disc by playing 10 seconds each at your designated point of time after the start of the music. The starting time of play is set at one minute in factory. Therefore, the highlight Scan begins one minute after the start unless you designate it otherwise.

When you do not want to change the factory-set time:

* When used in conjunction with the old type multi play CD players [CDX-M70] or [CDX-M100], the place where playback starts in highlight scan is fixed at the start of each track. Also, it is not possible to adjust this time setting.

1. Pressing Button ⑩ turns on the frame of Highlight Scan ⑳.
2. The contained pieces of music will be played in sequence for 10 seconds each one minute after the beginning.
3. Press Button ⑩ again when your selected piece comes, and it will continue to play. At this point, the Highlight Scan discontinues to operate.

* The previous function automatically resumes when a piece of music with which Highlight Scan began returns.

### Changing the Starting Time of Highlight Scan

When you want to set the starting time of the Highlight Scan to 30 seconds:

1. Turn on frame illumination on the manual indicator ⑱ by pressing the button ⑧.
2. Keep pressing either (+) or (−) side of Button ⑪ until the numerals reaches 30.
3. Pressing Button ⑩ for two or more seconds, turns on the frame of Highlight Scan ⑳.
   Highlight Scan will begin 30 seconds after the start of the next piece of music.

* The starting time of Highlight Scan can be designated at ten or tens of seconds only. A tenth or tenths of seconds can be disregraded.
* If a piece of music ends before your designated point of time at which Highlight Scan starts, the scanning is performed for its beginning 10 seconds.
* If a piece of music lasts less than 10 seconds, so does the Hightlight Scan.
* You may wish to change the starting time longer without suspending the function. You may do so, however, only to a relatively long-playing piece of music because, as a matter of course, the time cannot be set so as to come after the end of the music.

## Using the Music Repeat and Random Play Modes

Use button ⑦ to select music repeat or random play mode. (With the frame ⑰ illuminated.) Pressing this button repeatedly cycles the mode through RPT, RDM, and normal (the frame ⑰ will not be illuminated).

### Using Music Repeat

This function lets you listen to a track as many times as you wish.

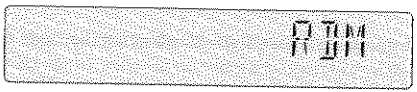
1. During playback of a favorite track, selecting RPT with button ⑦ will repeat that track indefinitely.

2. To clear the music repeat state, press the button ⑦, thus returning to normal display (the frame illumination ⑰ will go out).
- When this function is not engaged, performance of all tracks on the disc will repeat continuously. If the multi play CD player is in use, then the performance of all tracks on all discs will be repeated continuously.

### Random Play

This is a playback mode in which the built-in microcomputer selects the track number in random order, and it allows music to be enjoyed with a new sensation.

1. Press button ⑦, and "RDM" will be displayed. When the current track is over, future tracks will be selected randomly.



2. To clear random play, press button ⑦ until normal mode is selected. (The frame illumination ⑰ will go out.)
- Since selections are played in random order, the same selection may be played twice in succession.
- With the multi play CD player, any track from any disc in the magazine may be selected. However, if an old type multi play CD player is used (either the [CDX-M70] or [CDX-M100]), random play will only select tracks from a single disc.

## Using Fast Forward and Reverse

1. Turn on manual frame ⑱ illumination by pressing button number ⑧.
2. Press the (+) side of button ⑪ for fast forward, and the (−) side for reverse.
- Sound is output during fast forward and reverse operations.

## Using the Disc Title Function

It is possible to assign a title to a disc, and display that title during playback. Also, since titles are recorded for each disc, when that disc is played again, the title will automatically be displayed.



- Up to 72 titles may be registered. When more than 72 titles registered, the oldest registered titles will be deleted in sequence new titles are entered.

### Title Recording

1. Play the disc for which a title is to be recorded.
2. Set the mode to title input mode.
   Hold down button ⑥ for somewhat over 2 seconds. (The track numb display ⑮ and the playback time ⑯ will go out, and the first charac of the title will flash.)
3. Set the first character of the title.
   Change the character by pressing button ⑬ to the (+) or (−) sid
- The available characters are A to Z and 1 to 0.
4. Set the second character of the title.
   Press button ⑪ on either the (+) or (−) sides. The first character v cease to flash, and the second character will begin flashing. Chan the character by pressing button ⑬ to the (+) or (−) sides.
5. Using buttons ⑪ to change the position and ⑬ to select the charact repeat this operation until the title is complete. Up to 8 characters c be specified for the title.
6. Finally, press button ⑫. The title display will cease to flash, and t title will be recorded.

### Title Display

Since the titles are recorded for each disc, when a disc for which a ti has been set up is played, the title will automatically be displayed. If ti display is not desired, press button ⑥.
Press button ⑥ once more to switch over to the title display.
Pressing any button including button ⑥ will cancel the title display.

### Title Change

To change a title which has already been entered, repeat the operatio described above under "Title Recording".
- When a display of the titles is not desired, press button ⑬ in eith the (+) direction or the (−) direction when selecting the characte (as described in procedure 3) until nothing is displayed. This will s the unit to display no titles. The next time a disc is played, the playin time will be shown on the display.

# Using Program Play (Exclusive function for multiplay CD player)

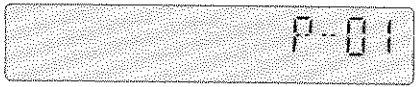


This function lets you program the play sequence of all of the tracks contained on the compact discs loaded in the magazine.

- The ITP function will not operate when connected to either the CDX-M70 or CDX-M100.
- Up to 32 selections can be programmed for a single magazine.
- Up to 16 different magazines (max. 32 selections per magazine) can be programmed individually. If you program more than 16 magazines, old programs are automatically replaced by new ones.
- Automatic Magazine Program Selection (AMPS) retrieves the right program from the memory automatically, as soon as a preprogrammed magazine is loaded. Preprogrammed magazines are identified using the CD in the tray 1 of the magazine. Therefore be sure that tray 1 contains a disc.

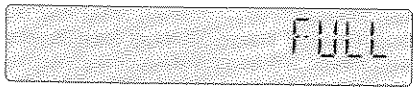
## Programming

1. While a disc is playing, select the desired disc and track you want to program. (See page 9—10)
2. Press the ITP button ⑨ memorize the track being palyed.




Displays the number of the step being added to the memory

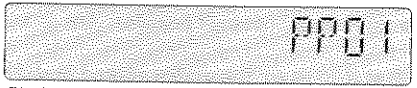
3. Procedures 1 and 2 above can be repeated until a maximum of 32 steps are programmed.
- If the 33rd step is selected, the "FULL" display will appear, indicating that no more selections can be programmed.




- ITP memory is not possible during music repeat or random play.
- When there are already a number of selections in the memory, the new selection will be added to the last step.

## Playing back the program

1. If the ITP button ⑨ is pressed for about 2 seconds during normal playback, then program playback will start. (The ITP frame ⑱ will light.)




Displays the step number being played.

2. Press the ITP button ⑨ again to cancel program play.
- Pressing button ⑪ during programmed play makes it possible to search for a specific step number from among the programmed selections.
- Program play returns to the first step in the programmed sequence when it reaches the end of the program.
- When playing a disc that has no program recorded, "EMPTY" will be displayed for approximately 3 seconds.

## Erasing the program

It is possible to erase one or all selections of magazine being played.

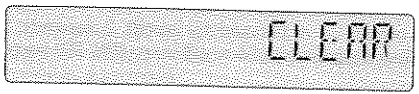
### To erase a single selection:

1. Press button ⑪ during programmed play, and search for the specific step you wish to erase.
2. Press the Program Clear button ⑫ for at least 2 seconds and the selection being played will be erased.

- After the particular track has been erased, the tracks in the next position move from down up one notch in the order from the previous position.

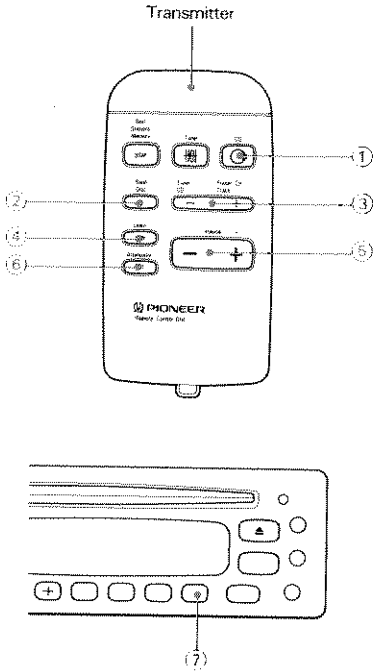
### To erase the entire program:

While a disc is playing, hold down button ⑫ for at least 2 seconds. All the programs in the magazine being played will be erased.



# Playing Disc by Remote Control






## CAUTION:

If this unit is used in conjunction with a cassette deck, (with the SOURCE/PRE OUT switch at the back of the unit set to SOURCE) the remote control will not function.

**① CD**

When a disc is inserted in the built-in CD player, the unit will switch to disc play mode. Pushing the button once again turns the power off.

- When the separately available multi play CD player is connected, the system cycles in the CD player, multi play CD player, power off order.

**② Disc Number Search**

Used to specify the number a disc loaded in the magazine. Each press of this button sequentially advances the number.

- This function only operates with the multi play CD player.

**③ Track Number Search**

Press to search for a selection (track number) on the current disc. Press the (+) side to increase the track number on the display, and the (–) side to reduce the track number. Holding down either side of this button changes the track number at high speed.

**④ Learn Button**

Takes on the function of the button operation recorded with the learning function. Refer to the "Learning Function" section for details.

**⑤ Volume**

Press the (+) side to increase volume and the (–) side to decrease volume.

**⑥ Attenuator**

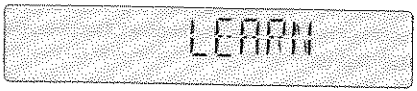
Press to reduce the volume to 1/10 of its current setting (volume display flashes). Pressing again returns the volume to its original level.

- This function is available using the remote controller unit only.

## Learning Function

Records one button from the main unit on the remote control's learn button. This can be convenient when a button which is used often is recorded.

1. Press button ⑦ on the main unit for about 2 seconds, until a beep is emitted. "LEARN" will be displayed on the display.



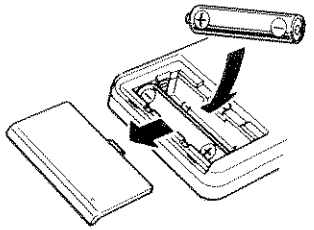

2. Press the button on the main unit that you want to use on the remote control.
3. Press the learn button ④ on the remote controller unit. The main unit button recorded can now be used from the remote control.

- Perform button recording while "LEARN" is displayed. If about 5 seconds pass without a button being recorded, the "LEARN" display will clear, and the previously recorded button will remain in memory.

## Preparing to Use the Remote Controller Unit

### Loading Batteries

1. Remove the battery compartment cover from the remote controller unit.
2. Load two batteries, whose type is UM-4, AAA, or R03, as applicable, that come with the unit into the remote controller unit, ensuring that their polarity (+/−) is correct.
3. Replace the battery compartment cover.

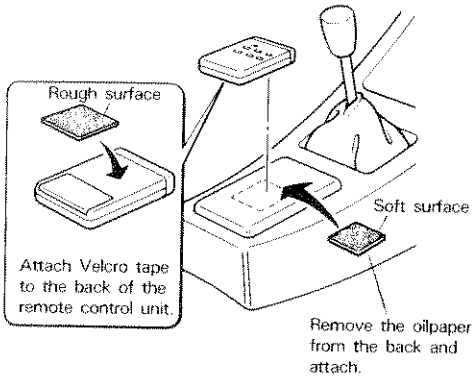


### Precautions When Loading Batteries

Note the following precautions when loading batteries into the rem controller unit to avoid damage due to battery fluid leakage.

- Always check carefully that you are loading batteries with their ⊕ ⊖ poles facing in the proper directions.
- Never mix old and new batteries. Always replace batteries with t new ones.
- Some batteries may appear to be identical but have different volt ratings. Never mix battery types.
- Some batteries can be recharged and some cannot. Be sure to caref read the label for the batteries you use.
- To avoid damage to the remote controller caused by battery leaka remove the batteries from the remote controller if you do not plan use it for more than one month. If you find that fluid has leak thoroughly wipe out the battery compartment and load a set of n batteries.

## Installing the Remote Controller Unit


Rough surface
Soft surface
Attach Velcro tape to the back of the remote control unit.
Remove the oilpaper from the back and attach.

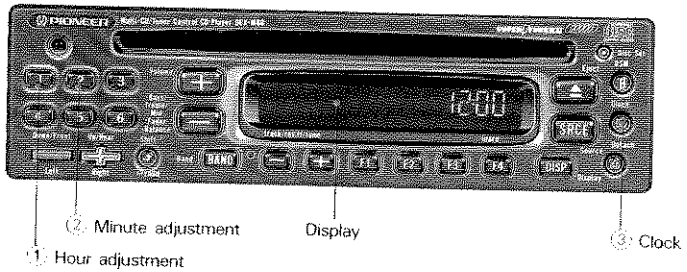
Affix a strip of Velcro tape to the back of the remote control unit. Remove the oil paper on the back and affix into place.

* Thoroughly wipe off the surface before affixing the Velcro tape.

### Precautions

- Keep the remote controller unit in an area not exposed to long periods of direct sunlight.
- The remote controller unit may not operate properly if the transmitter of the remote controller unit is pointed towards the floor or the seat of the vehicle.
- Since the transmitter employs and infrared system, it may not operate properly while car stereo unit is exposed to direct sunlight. In such a case, block the sunlight from the sensor and then perform the desired operation.
- If the remote controller fails to operate unless it is brought close to the unit, it may indicate that battery power is low. Replace the batteries in the remote controller.

# Using the Clock Display




## Displaying the Time

The clock is displayed while button ③ is depressed.
Press button ③ again to turn off the clock display.

- When the clock display is ON, pressing other buttons will release the clock display. The display will be restored approximately 25 seconds after the button operation has been compleated.
- When the ignition key is ON or in the ACC position, the clock display may be turned ON even if this unit is OFF.
- When the car engine stops, avoid using the clock display for a long time, otherwise the car battery will be exhausted.

## Adjusting the Time

### Adjusting the Hours

While holding down button ③, press button ① to adjust the hour setting of the clock. Each press of button ① advances the hour setting by one hour, and holding it down advances the setting at high speed.

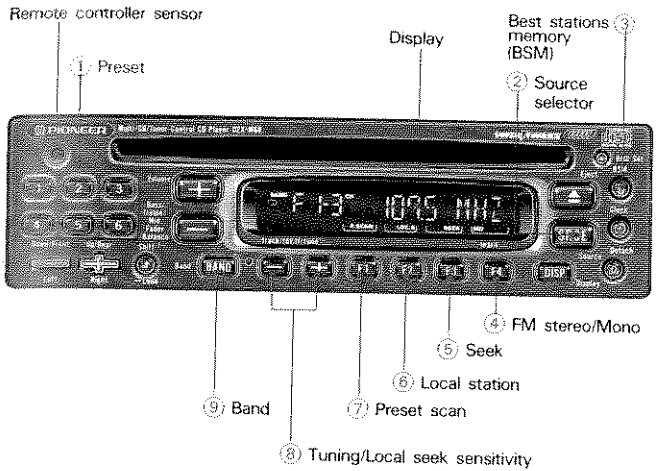
### Adjusting the Minutes

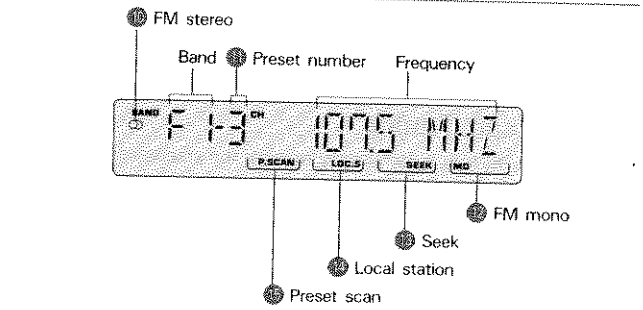
While holding down button ③, press button ② to adjust the minute se of the clock. Each press of button ② advances the minute setting one minute, and holding it down advances the setting at high spe

- After the minute adjustment has been completed, releasing the bu ③ will start the second beginning with zero. (The seconds won' displayed.) Adjust the second by checking them against a time sig When only the hours are being adjusted, the seconds will not s at zero.

# Using the Radio (The optional hide-away tuner is required)






When the separately available hide away tuner is connected to the main unit, it can function as the tuner controller.
The owner's manual provided with the hide away tuner does not cover tuner controller operation. This manual also covers operation of the tuner controller.

## CAUTION:

When the main unit is used in conjunction with a cassette deck, (and the SOURCE/PRE OUT switch at the back of the unit is switched to the SOURCE position), although the main unit's built-in CD player may be used, the hide away tuner can not be operated.

## Changing the Tuning Steps

The tuning steps of the AM band for this unit can be switched between 9 kHz and 10 kHz per step. The tuning step should be switched from 9 kHz (which is preset at the factory) to 10 kHz when this unit is used in North America, Central America, or South America.

1. Turn the ignition switch off.
2. While pressing both the either (+) or the (−) side of button ⑧, turn the ignition switch on. It should be noted that changing the turning steps also deletes frequencies stored in the tuning memories.

| Specification | | Initial setting | New setting |
|---|---|---|---|
| AM | Tuning steps | 9 kHz steps | 10 kHz steps |
| | Frequency range | 531 — 1,602 kHz | 530 — 1,710 kHz |

**1** Turn on the tuner's power by pressing button ②.
Each time the button is pushed the main unit switches between tuner and power off modes.

- This operation will differ if there is a CD inserted in the CD player, or if the separately available multi play CD player is connected. Refer to the section on the source switch on page 6 for details.

- When the hide away tuner is connected to the main unit for the first time, it may not operate correctly. (Pressing button ② may not switch to the tuner, for example.) If this occurs, press the clear button on the main unit. For details, refer to the section on the clear button on page 5.

**2** Press Button ⑨ to select a band.

F 1 → F 2 → F 3 → M

(FM1) (FM2) (FM3) (AM)

**3** Use seek tuning to tune in a frequency.
Confirm that the seek frame ⓭ on the display is illuminated. If it is not, press button ⑤ to light it. Press button ⑧ to either the (+) or (−) sides. The tuner will automatically tune in the next higher frequency if the (+) side was pushed, or the next lower frequency if the (−) side was pushed.

**4** Adjust volume and tone (see page 6.)

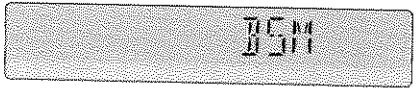
**5** Assign the tuned frequency to one of the Buttons in Bank ① (preset memory).
Press and hold down one of the buttons in Bank ① for at least two seconds. The frequency is assigned to the selected button when the preset number ⓫ stops flashing on the display. Up to 18 FM stations (6 each for FM1, FM2 and FM3), and six AM stations can be assigned to the preset memory buttons in Bank ①.

**6** Once a frequency is assigned to a Button in Bank ①, you just need to press that Button to tune it in.
This also causes the number of the button pressed to appear at Position ⓫ on the display.

## BSM (Best Stations Memory)

This function automatically locates stronger stations and automat assigns their frequencies to the buttons in Bank ①, from stronge weakest. It comes in handy when trying to find local stations while dr

1. Press button ⑨ and select a band.
2. Hold down button ③. After about two seconds, a "beep" will s to signal that the BSM search has started. At this time, "BSM" flash on the display.



3. The frequency display will return once BSM search is complete, frequencies are assigned to buttons 1 through 6 in Bank ①.

- At the end of the BSM search, the displayed frequency is that assi to button [1] of Bank ①.
- If there are fewer than six strong stations in the area, some of buttons in Bank ① will not be assigned frequencies, so they will r any frequencies assigned to them previously.
- BSM search may take as long as 30 seconds in areas where t are few strong stations.
- You can cancel BSM search by pressing button ③ again.

## Preset Scan Tuning

This function lets you automatically monitor the stations assigned to preset buttons.

1. Pressing butotn ⑦ turns on the frame of preset scan ⓯ and flas preset number ⓫.
   Each station assigned to the buttons in Bank ① will be automati tuned in for about eight seconds.
2. When you hear a station that you like, press button ⑦ again to ca preset scan tuning and remain at that station.

## Manual Tuning

Use manual tuning when stations are too weak to be picked up by seek tuning.

1. Clear the SEEK frame ⓭ illumination by pressing button ⑤.
2. Each press of the (+) side of button ⑧ increases the frequency in 50 kHz steps in the FM band, 9 kHz in the AM band. Pressing the (−) side of button ⑧ decreases the frequency. Holding down either side of button ⑧ changes the frequency at high speed.

• AM frequencies are turned in 10 kHz steps after the turning steps are changed.

## Switching between FM Stereo and Mono

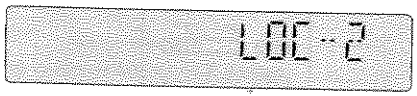
Generally, it is best to allow the "Super Tuner" function to automatically set the optimum listening conditions. ⓫ ⓾ turns on during stereo broadcast is in reception. When there is a large amount of noise, you can press button ④ for clearer mono reception (The frame of FM mono ⓾ turns on).

## Adjusting Seek Sensitivity

The seek tuning function of this tuner lets you select between a local setting for reception of strong stations only, and a DX (distant) setting for reception of weaker stations. The local setting also has four seek tuning sensitivity levels for FM and two levels for AM to match local conditions.

## Changing the Local Seek Sensitivity

1. Use button ⑨ to select a band.
2. Hold down the button ⑥ for more than two seconds, and the display will show you the current local seek sensitivity for about five seconds.




(Example: LOC-2)

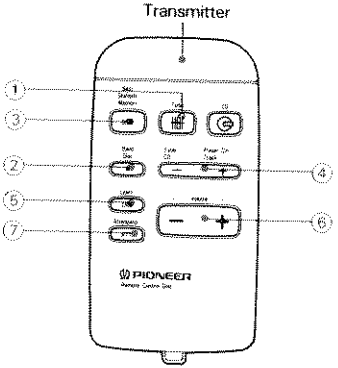
3. While the local seek sensitivity remains on the display, press the (+) side of button ⑧ to increase the sensitivity level, and the (−) side to decrease the level as shown below.
   FM : LOC-1⇄LOC-2⇄LOC-3⇄LOC-4
   AM : LOC-1⇄LOC-2
   The LOC-4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

• The display of local seek sensitivity returns to the frequency when about five seconds have elapsed after the change of sensivity.

## Switching between Local and DX

Press button ⑥ to switch between Local and DX (distant) seek tuning. When the frame of local seek ⓬ is lit, seek tuning is performed with the local seek sensitivity. Otherwise, seek tuning is performed with the DX seek sensitivity.

# Tuner Operation Using the Remote Control




## CAUTION:

If this unit is used in conjunction with a cassette deck, (with the SOURCE/PRE OUT switch at the back of the unit set to SOURCE), the remote control will not function.

**① Tuner**
The tuner is selected. Pressing again turns off the power.

**② Band**
Band changes.

F1→F2→F3→M
(FM1) (FM2) (FM3) (AM)

**③ Best Stations Memory**
Hold on this button for about two seconds, and you will hear a beep and see Best Stations Memory start.

**④ Preset Channel**
Press to tune the frequencies assigned to the preset button me
Pressing the (+) side tunes in the next high preset button number,
(−) tunes in the next lower preset button number. The preset nu
changes at high speed when you hold either side of this button c

**⑤ Learn Button**
Takes on the same function as the button recorded with the learn fun
Refer to the section "Learning Function" on page 16 for details.

**⑥ Volume**
Press the (+) side to increase volume and the (−) side to decrease vo

**⑦ Attenuator**
Press to reduce the volume to 1/10 of its current setting (volume di
flashes).
Pressing again returns the volume to its original level.
• This function is available using the remote controller unit only.

# Connecting the Units



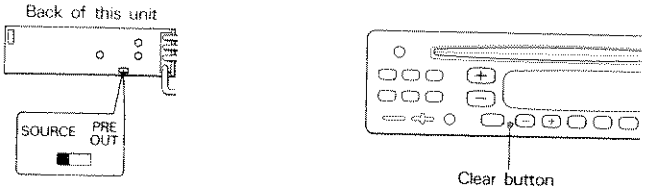
- Before making final connections, make temporary connections then operate the unit to check for any connecting cord problems.
- Refer to the owner's manual for details on connecting the various cords of the power amp and other units, then make connections correctly.
- Be sure to connect the memory power supply lead (orange) to a terminal that is always supplied with power regardless of the vehicle's ignition switch position. If this connection is made incorrectly or is forgotten, the unit will not work at all.
- Don't pass the orange lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- For 2-speaker systems, wire the rear output cord to the main amp.

## The Source Switch

Be sure to set this switch to the SOURCE side when a cassette deck is used in conjunction with the main unit. Then, when wiring has been completed, press the clear button.

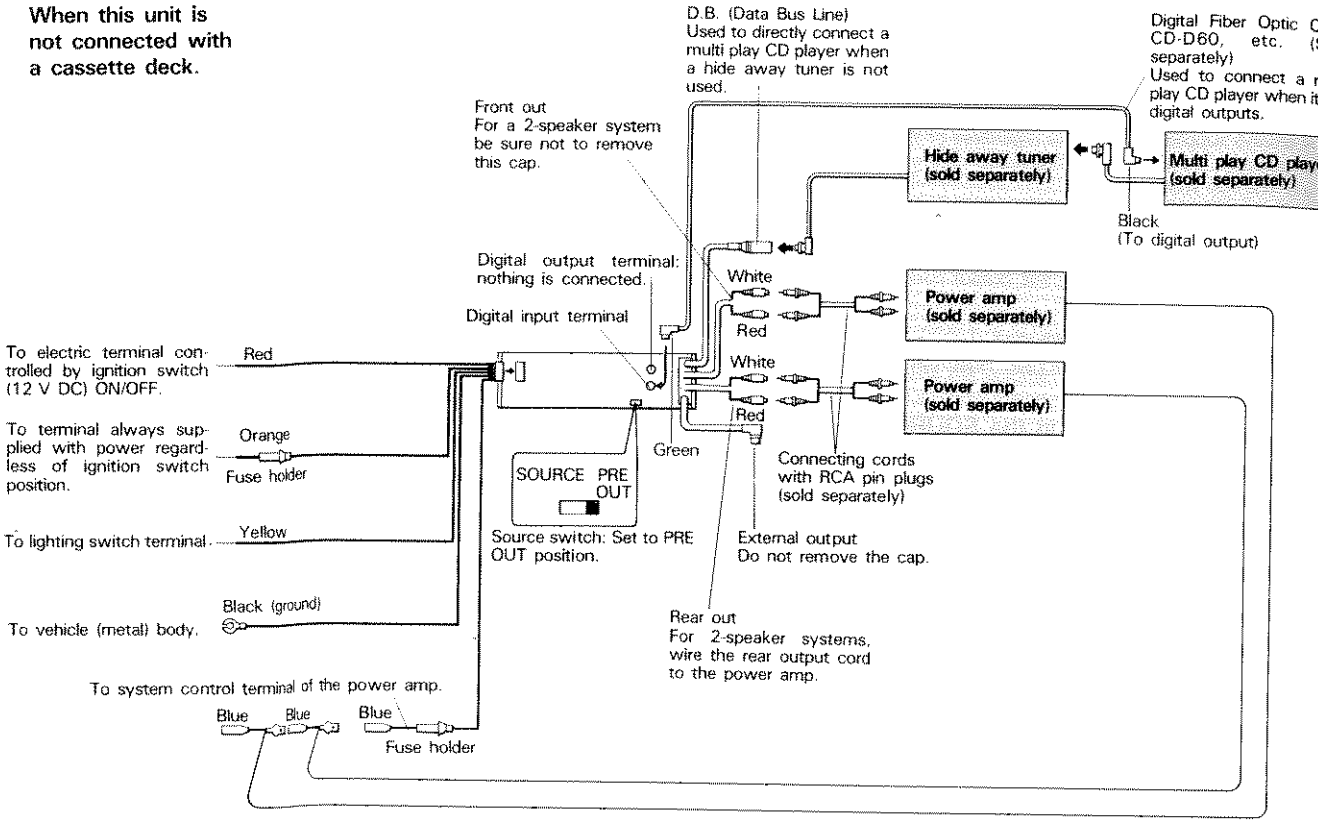
## When the source switch is in the SOURCE position:

- The cassette deck takes precedence, so to operate the disc player, turn off the cassette deck's power.
- Audio adjustments such as volume, fader, and bass on the main unit do not function. Perform these adjustments at the cassette deck.
- Although the main unit's CD player will function, the separately available multi paly CD player and the hide away tuner can not be operated even if they are connected.
- The remote control associated with the main unit can not be used.

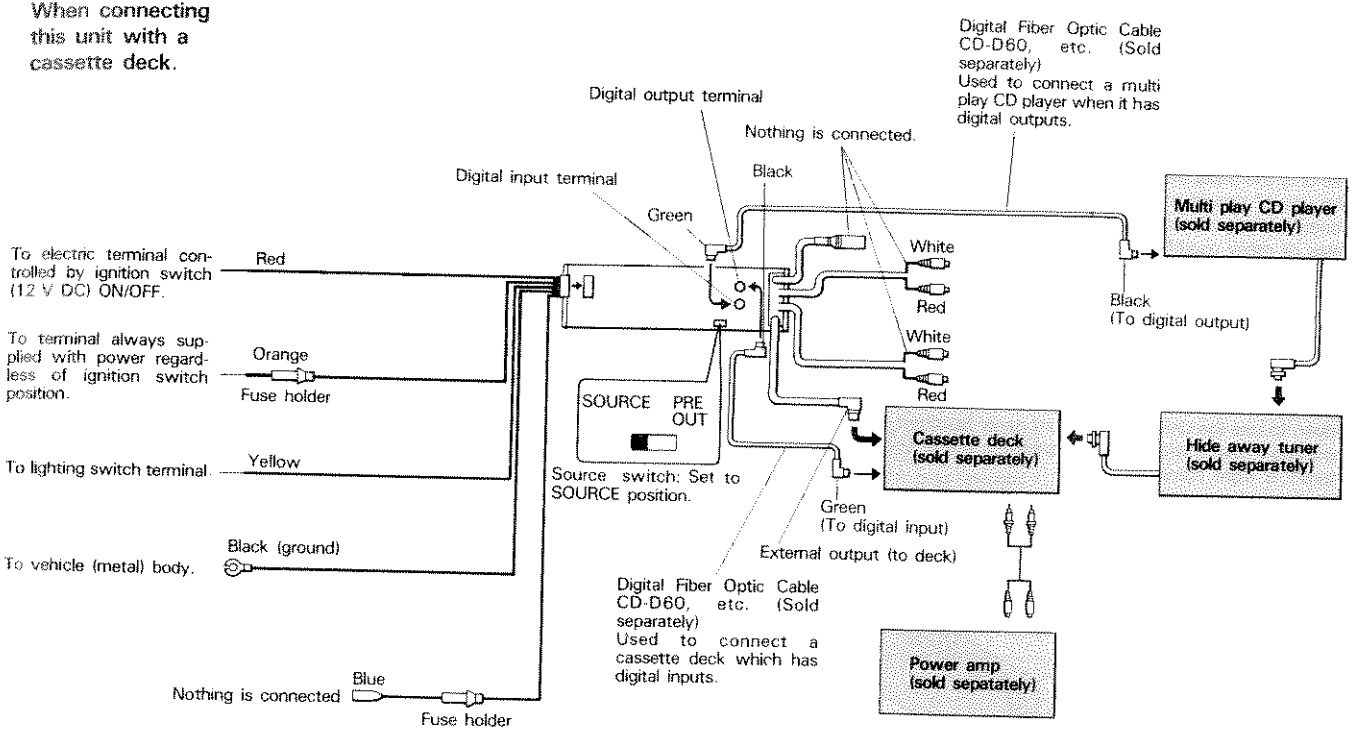



Set the source switch to the SOURCE position.

**When this unit is not connected with a cassette deck.**


D.B. (Data Bus Line)
Used to directly connect a multi play CD player when a hide away tuner is not used.
Digital Fiber Optic C
CD-D60, etc. (S
separately)
Used to connect a r
play CD player when it
digital outputs.
Front out
For a 2-speaker system be sure not to remove this cap.
Hide away tuner (sold separately)
Multi play CD play
(sold separately)
Black
(To digital output)
Digital output terminal: nothing is connected.
White
Red
Power amp (sold separately)
Digital input terminal
To electric terminal controlled by ignition switch (12 V DC) ON/OFF.
Red
White
Red
Power amp (sold separately)
To terminal always supplied with power regardless of ignition switch position.
Orange
Fuse holder
Green
Connecting cords with RCA pin plugs (sold separately)
SOURCE PRE OUT
To lighting switch terminal.
Yellow
Source switch: Set to PRE OUT position.
External output
Do not remove the cap.
Black (ground)
To vehicle (metal) body.
Rear out
For 2-speaker systems, wire the rear output cord to the power amp.
To system control terminal of the power amp.
Blue
Blue
Blue
Fuse holder

## When connecting this unit with a cassette deck.


Digital Fiber Optic Cable CD-D60, etc. (Sold separately)
Used to connect a multi play CD player when it has digital outputs.
Digital output terminal
Nothing is connected.
Digital input terminal
Black
Green
Multi play CD player (sold separately)
White
Red
Black (To digital output)
To electric terminal controlled by ignition switch (12 V DC) ON/OFF.
Red
To terminal always supplied with power regardless of ignition switch position.
Orange
Fuse holder
White
Red
SOURCE PRE OUT
Source switch: Set to SOURCE position.
Cassette deck (sold separately)
Hide away tuner (sold separately)
To lighting switch terminal.
Yellow
Green (To digital input)
External output (to deck)
To vehicle (metal) body.
Black (ground)
Digital Fiber Optic Cable CD-D60, etc. (Sold separately)
Used to connect a cassette deck which has digital inputs.
Power amp (sold sepatately)
Nothing is connected
Blue
Fuse holder

# Installation

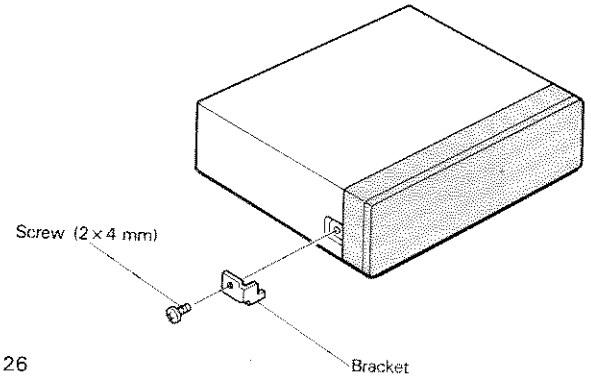
**DIN Front/Rear-mount:**
This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following illustrated installation methods.

**Note:**

- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance. (Fig. 1)
- The semiconductor laser will be damaged if it overheats, so don't install the unit anywhere hot — for instance, near a heater outlet.

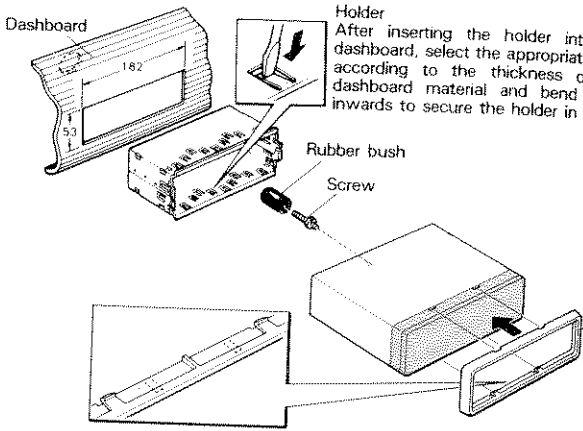
## Front Panel Bracket

As a safeguard against theft, the front panel of the unit may be removed. However, to use the unit with the front panel fastened in place, it should be mounted in place with the accompanying screw and bracket in order to prevent it from coming loose.

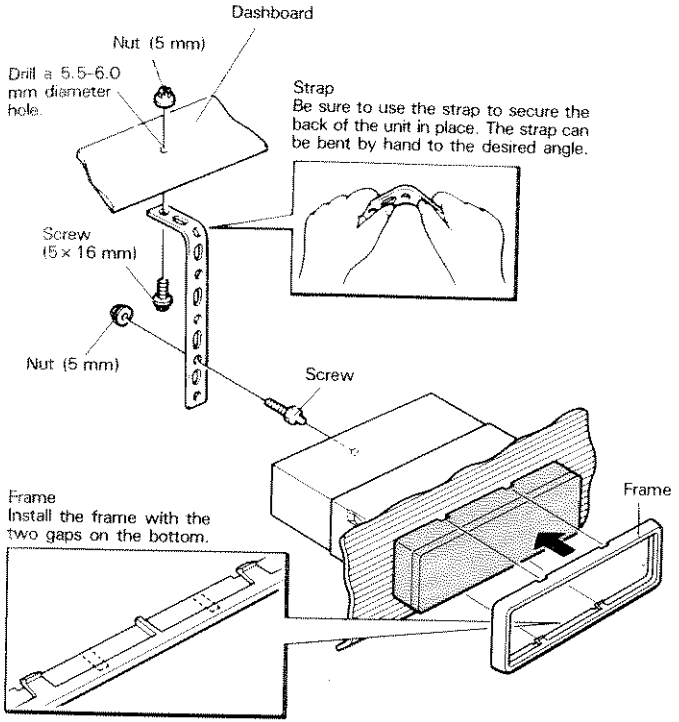



## Installation with the rubber bush (DIN Front-mount)

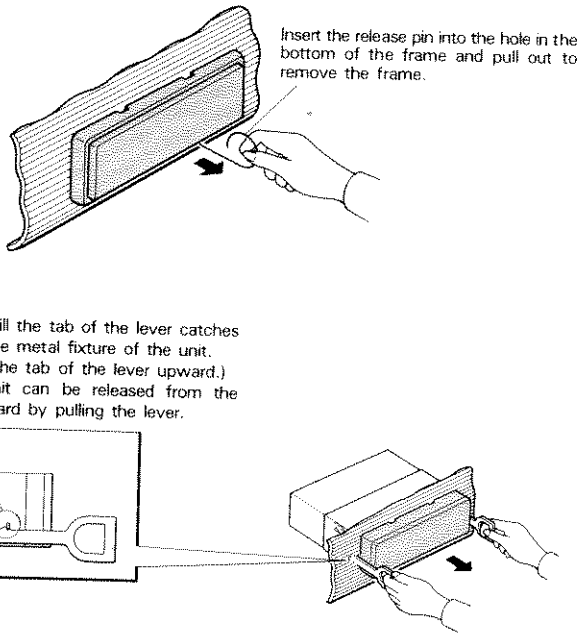
Fig. 1



## Installation without the rubber bush (DIN Front-mount)

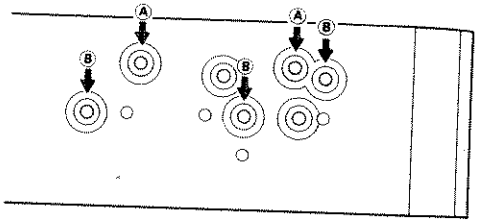

Dashboard
Nut (5 mm)
Drill a 5.5–6.0 mm diameter hole.
Strap
Be sure to use the strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle.
Screw (5 × 16 mm)
Nut (5 mm)
Screw
Frame
Frame
Install the frame with the two gaps on the bottom.

## Removing the unit (DIN Front-mount)


Insert the release pin into the hole in the bottom of the frame and pull out to remove the frame.
Insert till the tab of the lever catches onto the metal fixture of the unit.
(Point the tab of the lever upward.)
The unit can be released from the dashboard by pulling the lever.
Tab

## Installation using the screw holes on the sides of the unit (DIN Rear-mount)

1. **Remove the stopper.**
   Remove the screw (4 x 8 mm) and remove the stopper from both sides. (Fig. 1)
2. **Fastening the unit to the factory radio mounting bracket**
   For the screw holes marked Ⓐ in Fig. 2, use 4 x 8 mm screws.
   For the screw holes marked Ⓑ, use 5 x 8 mm screws. (Fig. 3)



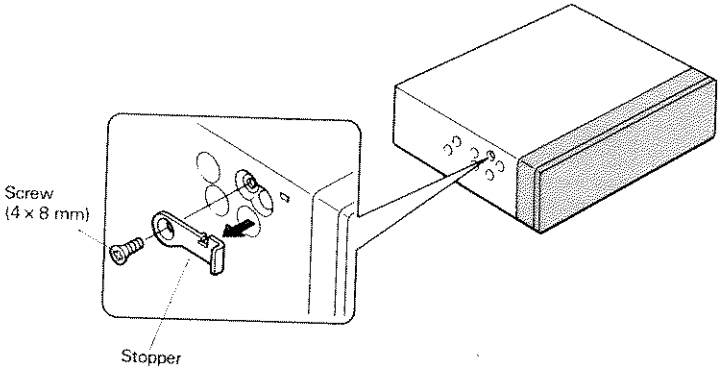
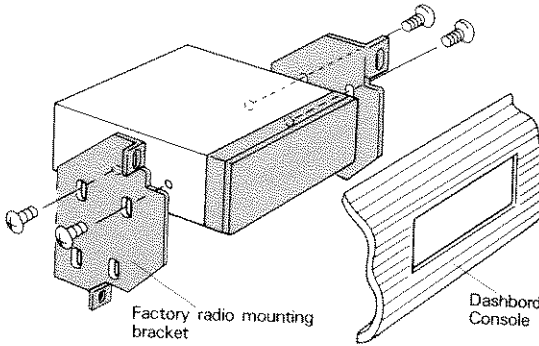




Fig. 1



# Discs



- Only use compact discs (optical digital audio discs) bearing the mark shown below. (Fig. 1)
- Be sure never to touch the signal surface when handling discs. Pick up discs by grasping the outer edges or the edge of the hole and the outer edge. (Fig. 2) (Fig. 3)
- Do not affix paper or tape, and avoid scratching the side of the disc which contains the label (contents of disc). (Fig. 4)
- The disc revolves at high speed within the player unit, so defective (cracked or badly bent) discs should not be used. (Fig. 5) (Fig. 6)
- Dust and/or finger smudges will have no direct effect on the signal recorded on the disc, but dirt can decrease the amount of light reflected from the recorded surface, thus affecting sound quality. If the disc should become soiled, gently wipe the surface with a soft lint-free cloth, wiping from the center of the disc to the edge. (Fig. 7)
- Do not use record sprays or antistatic agents. Such volatile chemicals as benzine and thinner can also damage the surface of the disc and should not be used. (Fig. 8)
- As with traditional audio records, compact discs are made of plastic. To avoid warping, keep the discs in their cases and do not store them in places exposed to direct sunlight. (Fig. 9)

Fig. 1

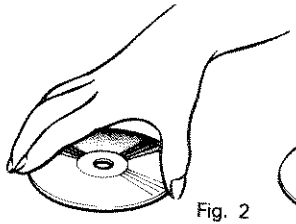


Fig. 2

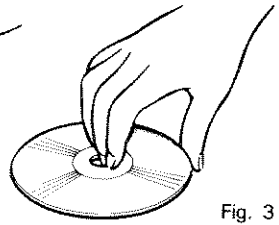


Fig. 3

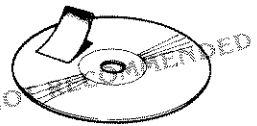



Fig. 4

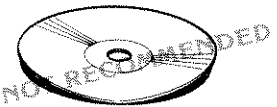



Fig. 5

Fig. 6

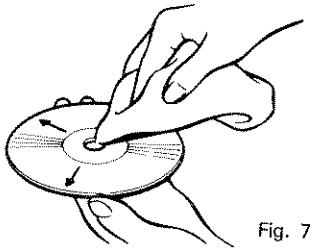


Fig. 7

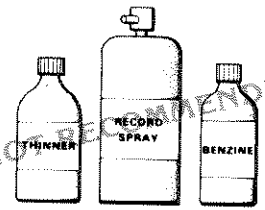



Fig. 8

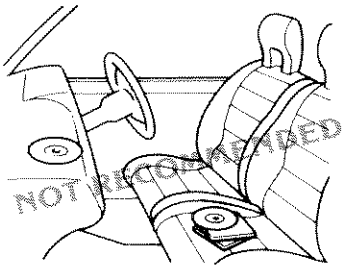
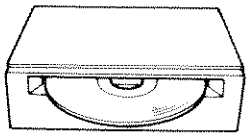



Fig. 9

# Precautions

- To assure proper operation of the unit, keep the vehicle interior temperature within a normal range using the vehicle's air conditioner or heater.
- When replacing fuses, be sure to use only fuses of the rating prescribed on the fuse holder.
- Do not leave an ejected disc in the insertion slot for extended periods since direct sunlight can cause warping. Always return discs to their cases and store in areas not exposed to direct sunlight.



Discs should not be left like this for extended periods.

- Do not leave an ejected 8-cm CD in the slot while driving. The vibration may make it drop out.
- When driving on an uneven road, the player may not reproduce ev sound property.
- Never remove the top case of the unit to attempt check or repa If operation of the unit is abnormal, contact your dealer or the near Pioneer Service Station.
- If the car's battery is disconnected for any reason, the preset mem will be erased and must be reprogrammed after reconnection of battery.
- When driving your vehicle, be sure to keep the volume of the unit low enough to allow you to hear sounds coming from outside.

**Condensation**

- During winter the inside of the vehicle may be very cold. If the hea is turned on and the player is used soon after, the disc or optical pa (prism, lens, etc.) may become misted up. If the disc is misted u wipe it with a soft cloth. If the optical parts are misted up, wait about an hour for them to worm up. They will return to their norm condition.

In case of trouble
When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

# Specifications



| | |
|---|---|
| Power source | 14.4 V DC (10.8–15.6 V allowable) |
| Grounding system | Negative type |
| Dimensions (chassis) | 178(W) × 50(H) × 150(D) mm |
| (nose) | 178(W) × 49(H) × 18(D) mm |
| Weight | 1.7 kg |
| Nominal output level/ output impendance (pre out) | 500 mV/1 kΩ |
| Tone controls (bass) | ± 10 dB (100 Hz) |
| (middle) | ± 10 dB (1 kHz) |
| (treble) | ± 10 dB (10 kHz) |
| Loudness contour | + 10 dB (100 Hz), + 7 dB (10 kHz) (volume: – 30 dB) |
| System | Comapct disc audio system |
| Usable discs | Compact disc |
| Signal format | Sampling frequency: 44.1 kHz Number of quantizaion bits: 16; linear |
| Frequency characteristics | 5–20,000 Hz (± 1 dB) |
| Signal-to-noise ratio | 106 dB (1 kHz) (IEC-A network) |
| Dynamic range | 92 dB (1 kHz) |
| Number of channels | 2 (stereo) |

**Note:**

Specifications and the design are subject to possible modification without notice due to improvements.

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